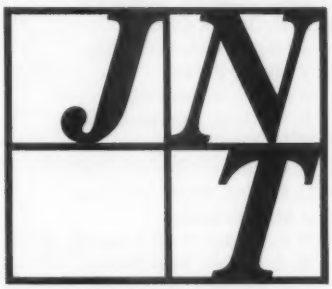
Journal of Neural Transmission

Volume 73 *1988*

ISSN 0300-9564



Springer-Verlag Wien NewYork

Journal of Neural Transmission

Editorial Board

A. Carlsson, Göteborg (Managing Editor)
H. Beckmann, Würzburg
R. Cancro, New York, N.Y.
S. Gershon, Detroit, Mich.
B. A. McMillen, Greenville, N.C.
J. M. Palacios, Basel
J. D. Parkes, London
P. Riederer, Würzburg
G. R. Siggins, La Jolla, Calif.
D. P. van Kammen, Pittsburgh, Penn.
P. Waldmeier, Basel
R. J. Wurtman, Cambridge, Mass.
E. Zarifian, Caen

Advisory Board

L. Ahtee, Helsinki
N.-E. Andén, Stockholm
J. Ariëns Kappers, Laren N. H.
M. Åsberg, Stockholm
R. H. Belmaker, Jerusalem
W. Birkmayer, Wien
M. Brownstein, Bethesda, Md.
W. E. Bunney, Irvine, Calif.
D. P. Cardinali, Buenos Aires
G. U. Corsini, Cagliari
A. Dahlström, Göteborg
H. Emrich, München
J. Engel, Göteborg
R. W. Fuller, Indianapolis, Ind.
R. Gamse, Basel
M. Goldstein, New York, N.Y.
C. G. Gottfries, Göteborg
A. R. Green, Oxford
J. Häggendal, Göteborg
V. Henn, Zürich
J. Hyttel, Kopenhagen
D. C. Klein, Bethesda, Md.
G. W. Kreutzberg, München
R. A. Levine, Detroit, Mich.
L. Maître, Basel
J. Maj, Kraków
K. E. Moore, East Lansing, Mich.
W. E. Müller, Mannheim
D. L. Murphy, Bethesda, Md.
T. Nagatsu, Nagoya
S.-O. Ögren, Södertälje
L. Oreland, Uppsala
Ch. Owman, Lund
R. J. Reiter, San Antonio, Tex.
G. P. Reynolds, Nottingham
U. K. Rinne, Turku
J. Scheel-Krüger, Roskilde
P. Simon, Paris
P. Skolnick, Bethesda, Md.
J. Spona, Wien
L. Vollrath, Mainz
F. Waldhauser, Wien
W. Waldhäusl, Wien
W. Wesemann, Marburg
B. Winblad, Umeå
M. D. Yahr, New York, N.Y.
M. B. H. Youdim, Haifa

The exclusive copyright for all languages and countries, including the right for photomechanical and any other reproductions including microform is transferred to the publisher. For copyright regulations and for further information, see the detailed "Instructions to Authors".

© 1988 by Springer-Verlag/Wien

Contents

Review Article

Zisapel, Nava: Melatonin receptors revisited 1

Original Papers

Agnati, L. F., s. Kitayama, I.
Araki, Y., s. Oishi, R.
Archer, T., s. Fowler, C. J.
Azuma, T., Watanabe, Y., Suzuki, T., Sakoda, S., Higa, S., Mizuno, R., Tsujino, S., Kishimoto, S., Yoshida, H.: The aortic alpha$_1$-adrenergic receptor in familial amyloidotic polyneuropathy 23
Berge, O.-G., s. Eide, P. K.
Bartsch, C., s. Noteborn, H. P. J. M.
Bartsch, H., s. Noteborn, H. P. J. M.
Bianchi, R., s. Souto, Marta
Bloom, F. E., s. Staunton, D. A.
Chojnacka-Wójcik, E., s. Maj, J.
Chouvet, G. E., s. Staunton, D. A.
Cintra, A., s. Kitayama, I.
Clarenbach, P., s. Rao, Marie Luise
Dereń, A., s. Maj, J.
Ebels, I., s. Noteborn, H. P. J. M.
Eide, P. K., Hole, K., Berge, O.-G.: Mechanisms by which the putative serotonin receptor antagonist metitepin alters nociception in mice 31
Eneroth, P., s. Kitayama, I.
Engel, J., s. Hård, E.
Farde, L., s. Hall, H.
Fiehmig, B., s. Noteborn, H. P. J. M.
Fowler, C. J., Thorell, G., Sundström, E., Archer, T.: Norepinephrine-stimulated inositol phospholipid breakdown in the rat cerebral cortex following serotoninergic lesion 205
— s. O'Neill, C.
Fukuda, T., s. Oishi, R.
Fuxe, K., s. Kitayama, I.
Graf, E., s. Laurian, L.
Gustafsson, J.-Å., s. Kitayama, I.
Härfstrand, A., s. Kitayama, I.
Hård, E., Engel, J., Lindh, Ann-Sofie: Effect of clonidine on ultrasonic vocalization in preweaning rats 217
Hall, H., Farde, L., Sedvall, G.: Human dopamine receptor subtypes—in vitro binding analysis using ^{3}H-SCH 23390 and ^{3}H-raclopride 7
Higa, S., s. Azuma, T.
Hirschmann, N., s.- Kaplanski, J.
Hoerer, E., s. Laurian, L.
Hole, K., s. Eide, P. K.
Itoh, Y., s. Oishi, R.
Janson, A. M., s. Kitayama, I.

Kaplanski, J., Zohar, R., Sod-Moriah, U. A., Magal, E., Hirschmann, N., Nir, I.: Pregnancy outcome in heat-exposed hamsters; the involvement of the pineal 57
Karlsson-Boethius, G., s. Köhler, C.
Kishimoto, S., s. Azuma, T.
Kitayama, I., Janson, A. M., Cintra, A., Fuxe, K., Agnati, L. F., Ögren, S.-O., Härfstrand, A., Eneroth, P., Gustafsson, J.-Å.: Effects of chronic imipramine treatment on glucocorticoid receptor immunoreactivity in various regions of the rat brain 191
Kłodzińska, A., s. Maj, J.
Köhler, C., Karlsson-Boethius, G.: In vivo labelling of rat brain dopamine D-2 receptors. Stereoselective blockade by the D-2 antagonist raclopride and its enantiomer of ^{3}H-spiperone, ^{3}H-N,N-propylnorapomorphine and ^{3}H-raclopride binding in the rat brain 87
Krätzschmar, S., s. Rao, Marie Luise
Laurian, L., Oberman, Z., Hoerer, E., Graf, E.: Antiserotonergic inhibition of calcitonin-induced increase of β-endorphin, ACTH, and cortisol secretion . . . 167
Levin, S. L.: The bimodal effect of cholinergic blocking agents on the human parotid gland deprived of parasympathetic control 239
Lindh, Ann-Sofie, s. Hård, E.
Magal, E., s. Kaplanski, J.
Maj, J., Chojnacka-Wójcik, E., Kłodzińska, A., Dereń, A., Moryl, E.: Hypothermia induced by m-trifluoromethylphenylpiperazine or m-chlorophenylpiperazine: an effect mediated by 5-HT_{1B} receptors? 43
Mans, D. R. A., s. Noteborn, H. P. J. M.
Marcusson, J. O., s. O'Neill, C.
Mizuno, R., s. Azuma, T.
Mölsä, P. K., s. Rinne, J. O.
Moryl, E., s. Maj, J.
O'Neill, C., Fowler, C. J., Marcusson, J. O., Winblad, B.: Adrenergic, serotoninergic, histaminergic, and imipramine binding sites in post-mortal human cerebral microvessel preparations 177
Nir, I., s. Kaplanski, J.
Noteborn, H. P. J. M., Bartsch, H., Bartsch, C., Mans, D. R. A., Weusten, J. J. A. M., Fiehmig, B., Ebels, I., Salemink, C. A.: Partial purification of (a) low molecular weight ovine pineal compound(s) with an inhibiting effect on the growth of human melanoma cells in vitro 135
Oberman, Z., s. Laurian, L.
Ögren, S.-O., s. Kitayama, I.
Oishi, R., Itoh, Y., Fukuda, T., Araki, Y., Saeki, K.: Comparison of the size of neuronal and non-neuronal histamine pools in the brain of different rat strains 65
Paljärvi, L., s. Rinne, J. O.
Piezzi, R. S., s. Souto, Marta
Rao, Marie Luise, Clarenbach, P., Vahlensieck, M., Krätzschmar, S.: Gabapentin augments whole blood serotonin in healthy young men 129
Rinne, J. O., Säkö, E., Paljärvi, L., Mölsä, P. K., Rinne, U. K.: A comparison of brain choline acetyltransferase activity in Alzheimer's disease, multi-infarct dementia, and combined dementia 121
Rinne, U. K., s. Rinne, J. O.
Saeki, K., s. Oishi, R.
Säkö, E., s. Rinne, J. O.
Sakoda, S., s. Azuma, T.
Salemink, C. A., s. Noteborn, H. P. J. M.
Sedvall, G., s. Hall, H.
Siggins, G. R., s. Staunton, D. A.
Sod-Moriah, U. A., s. Kaplanski, J.
Souto, Marta, Piezzi, R. S., Bianchi, R.: Catecholaminergic responses of neonatal adrenal gland to insulin 115

Staunton, D. A., Svensson, T. H., Chouvet, G. E., Siggins, G. R., Bloom, F. E.: Systemic phenoxybenzamine but not β-adrenergic antagonists block noradrenergic inhibition of cerebellar Purkinje and hippocampal pyramidal neurons 101
Sundström, E., s. Fowler, C. J.
Suzuki, T., s. Azuma, T.
Svensson, T. H., s. Staunton, D. A.
Thorell, G., s. Fowler, C. J.
Tsujino, S., s. Azuma, T.
Vahlensieck, M., s. Rao, Marie Luise
Watanabe, Y., s. Azuma, T.
Weusten, J. J. A. M., s. Noteborn, H. P. J. M.
Winblad, B., s. O'Neill, C.
Yoshida, H., s. Azuma, T.
Zohar, R., s. Kaplanski, J.

Short Notes

Adem, A., Singh Jossan, S., d'Argy, R., Brandt, I., Winblad, B., Nordberg, Agneta: Distribution of nicotinic receptors in human thalamus as visualized by ^{3}H-nicotine and ^{3}H-acetylcholine receptor autoradiography 77
Areso, P., s. García-Sevilla, J. A.
d'Argy, R., s. Adem, A.
Berggren, U.: The effect of short-term lithium administration on noradrenaline metabolism in the limbic forebrain and hemispheres of rats 71
Brandt, I., s. Adem, A.
García-Sevilla, J. A., Ulibarri, I., Giralt, M. T., Areso, P., Oliveros, R. G., Gutiérrez, M.: Chronic naltrexone suppresses platelet aggregation induced by adrenaline and 5-hydroxytryptamine in former heroin addicts 157
Giralt, M. T., s. García-Sevilla, J. A.
Gutiérrez, M., s. García-Sevilla, J. A.
Kunert-Radek, J., s. Pawlikowski, M.
Łysoń, K., s. Pawlikowski, M.
Nordberg, Agneta, s. Adem, A.
Oliveros, R. G., s. García-Sevilla, J. A.
Pawlikowski, M., Łysoń, K., Kunert-Radek, J., Stępień, H.: Effect of benzodiazepines on the proliferation of mouse spleen lymphocytes in vitro 161
Singh Jossan, S., s. Adem, A.
Stepien, H., s. Pawlikowski, M.
Ulibarri, I., s. García-Sevilla, J. A.
Winblad, B., s. Adem, A.